

Recovery Plan Action Status

Plan Name: South Florida Multi-Species Recovery Plan (68 spp.)

Plan Status: Final

Plan Date: 18-May-99

Lead Agency: USFWS

Lead Office: South Florida Ecological Services Field Office

(562-3909)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Snakeroot (Eryngium cuneifolium)	2	ercu-h1.1	Secure habitat through acquisition, landowner agreements, and conservation easements for snakeroot (Eryngium cuneifolium).	Not Started			Florida Department of Environmental Protection, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Cost dependent upon specific site and amount of land acquired. Action lead(s): FWS
Snakeroot (Eryngium cuneifolium)	2	ercu-h1.2.1	Conduct prescribed burns.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres burned. Action lead(s): DOF
Snakeroot (Eryngium cuneifolium)	3	ercu-h1.2.2	Control and eliminate exotic and invasive plants and animals.	Not Started			Florida Department of Environmental Protection, Florida Department of Transportation, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Florida Division of Forestry, Water Management Districts	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 2/acre); Total cost dependent upon number of acres infected with exotics. Action lead(s): FWC, private
Snakeroot (Eryngium cuneifolium)	3	ercu-h1.2.3	Control access to areas where snakeroot is growing.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Task currently conducted and cost is included in responsible agency's budget. Action lead(s): FWC

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Snakeroot (Eryngium cuneifolium)	3	ercu-h2.1	Restore natural fire regime.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres burned. Action lead(s): FWC, DOF, private
Snakeroot (Eryngium cuneifolium)	3	ercu-h2.2	Enhance sites with native plant species.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 0.5/acre); Total cost dependent upon number of acres enhanced. Action lead(s): FWC
Snakeroot (Eryngium cuneifolium)	3	ercu-h3.0	Continue habitat-level research projects.	Not Started			Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Action lead(s): private
Snakeroot (Eryngium cuneifolium)	2	ercu-h4.0	Monitor habitat/ecological processes.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Action lead(s): private
Snakeroot (Eryngium cuneifolium)	3	ercu-h5.0	Provide public information about scrub and its unique biota.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS, private
Snakeroot (Eryngium cuneifolium)	3	ercu-s1.1.1	Continue surveys in Highlands County.	Not Started			Florida Natural Areas Inventory	Work type not yet selected	Labor type not yet selected	Action lead(s): FNAI
Snakeroot (Eryngium cuneifolium)	2	ercu-s1.1.2	Continue surveys on protected lands.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Properties should be surveyed when acquired. Action lead(s): FWC

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Snakeroot (Eryngium cuneifolium)	2	ercu-s1.2	Maintain distribution of known populations and suitable habitat in GIS database.	Not Started			Florida Natural Areas Inventory, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS, FNAI
Snakeroot (Eryngium cuneifolium)	1	ercu-s2.1	Protect habitat through acquisition, conservation easements, or agreements with landowners.	Not Started			Florida Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	Cost dependent upon type of protection provided. Action lead(s): FDEP
Snakeroot (Eryngium cuneifolium)	1	ercu-s2.2	Protect populations on public lands.	Not Started			Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Cost dependent upon type of protection provided. Action lead(s): FWS, FWC
Snakeroot (Eryngium cuneifolium)	2	ercu-s2.3	Use local or regional planning to protect habitat.	Not Started			South Florida counties	Work type not yet selected	Labor type not yet selected	Cost included in standard operating procedures of participating agency's budget. Action lead(s): counties
Snakeroot (Eryngium cuneifolium)	2	ercu-s2.4	Conserve germ plasm.	Not Started			Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Currently in Bokýs collection. Action lead(s): private
Snakeroot (Eryngium cuneifolium)	2	ercu-s2.5.1	Initiate section 7 consultation when applicable.	Not Started			U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Natural Resources Conservation Service , United States Coast Guard , U.S. Air Force	Work type not yet selected	Labor type not yet selected	Cost included in standard operating procedures of Federal agency's budget. Action lead(s): All Federal agencies
Snakeroot (Eryngium cuneifolium)	3	ercu-s2.5.2	Enforce take and trade prohibitions.	Not Started			Florida Department of Agriculture and Consumer Services/Division of Plant Industry	Work type not yet selected	Labor type not yet selected	Cost included in standard operating budgets of participating agencies. Action lead(s): FWS

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Snakeroot (Eryngium cuneifolium)	2	ercu-s3.1	Continue research to determine demographic information.	Not Started			Private industry, landowners, etc., Public and private universities	Work type not yet selected	Labor type not yet selected	Archbold has determined demographic information. Action lead(s): private
Snakeroot (Eryngium cuneifolium)	2	ercu-s3.2	Once demographic data are known, conduct population viability and risk assessment analysis.	Not Started			Private industry, landowners, etc., Public and private universities	Work type not yet selected	Labor type not yet selected	Archbold has developed a population viability analysis. Action lead(s): private
Snakeroot (Eryngium cuneifolium)	2	ercu-s3.3	Conduct research to assess management requirements of snakeroot.	Not Started			Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Action lead(s): private
Snakeroot (Eryngium cuneifolium)	2	ercu-s4.1.1	Monitor to detect changes in demographic characteristics.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Action lead(s): private
Snakeroot (Eryngium cuneifolium)	2	ercu-s4.1.2	Monitor the effects of various land management actions on snakeroot.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Action lead(s): private
Snakeroot (Eryngium cuneifolium)	2	ercu-s4.2	Develop a quantitative description of the population structure of snakeroot.	Not Started			Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Mostly completed by Archbold research. Action lead(s): private
Snakeroot (Eryngium cuneifolium)	3	ercu-s5.0	Provide public information about snakeroot.	Not Started			Florida Fish and Wildlife Conservation Commission, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS, private

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Snakeroot (Eryngium cuneifolium)	3	ercu-s6.0	Develop delisting criteria.	Not Started			Florida Department of Environmental Protection, South Florida counties	Work type not yet selected	Labor type not yet selected	Delisting criteria are to be developed after the species is reclassified to threatened status. Action lead(s): FWS